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SAMSUNG

COLOUR TELEVISION

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

REMOTE CONTROL

ON-SCREEN MENUS

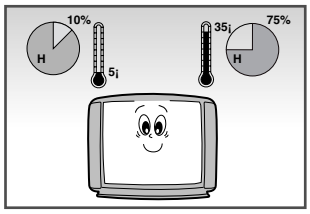
TELETEXT FUNCTION (depending on the model)

ENG

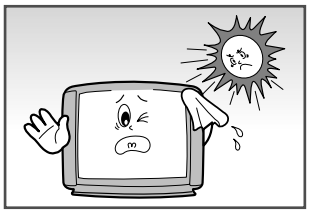
ENG

Safety Instructions

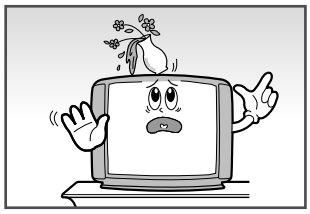
The following illustrations represent the precautions to be taken when using and moving your television.



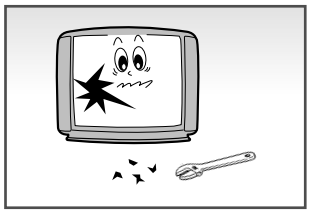
Do NOT expose the television to extreme temperature conditions or to extreme humidity conditions.



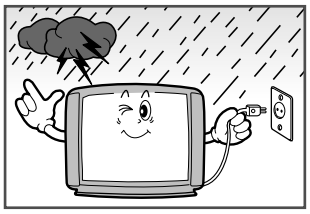
Do NOT expose the television to direct sunlight.



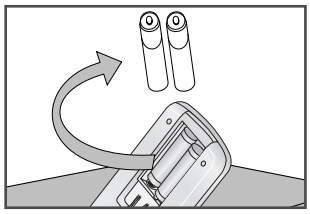
Do NOT expose the television to any liquids.



If the television is broken, do not try to repair it yourself. Contact qualified service personnel.



During a storm conditions (especially when there is lightning) unplug the television from the mains socket and aerial.



If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.

THIS DEVICE IS NOT FOR USE IN INDUSTRIAL ENVIRONMENTS

☛ ***Displaying any stationary images that exceed the long time, it can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.***

Caution

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE REAR COVER, NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

☛ ***The main voltage is indicated on the rear of the TV set and the frequency is 50 or 60Hz.***

The lightning flash and arrow head within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.

The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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Symbols

Press **Important** **Note**

Control Panels

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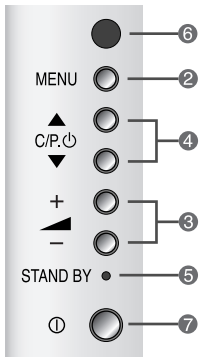
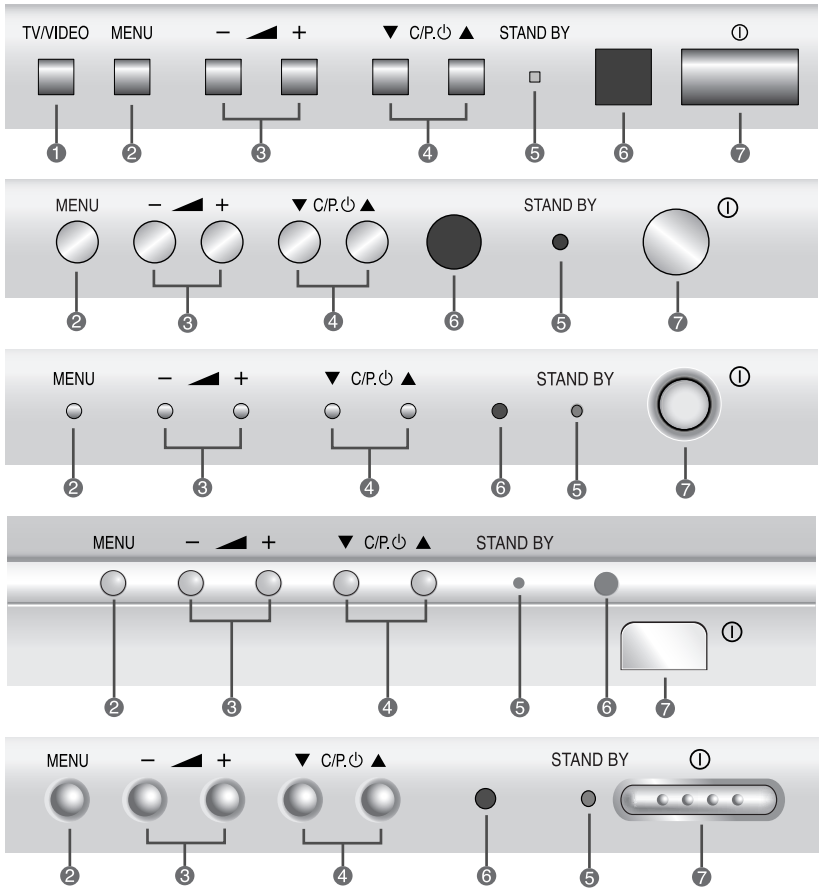
➢ The actual configuration on your TV may be different, depending on your model.



❶ INPUT SOURCE SELECTION
❷ MENU DISPLAY
❸ VOLUME ADJUSTMENT
❹ CHANNEL SELECTION
❺ STANDBY INDICATOR
❻ REMOTE CONTROL SENSOR
❼ POWER ON/OFF



➢ *Using the Buttons on the Panel*

If the remote control no longer works or you have lost it, you can use controls on the panel of the TV to:

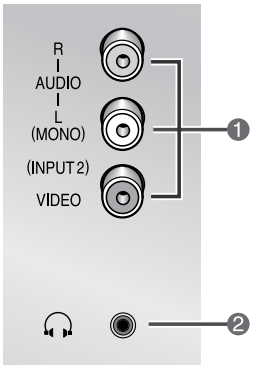
- Switch on the TV when it is in Standby mode and select channels (▼ **C/P.** ⏻ ▲)
- Access the main menu (**MENU**)
- Adjust the volume (**–** ◢ **+**)
- Switch among Video input modes (**TV/VIDEO**)

Connection Panels

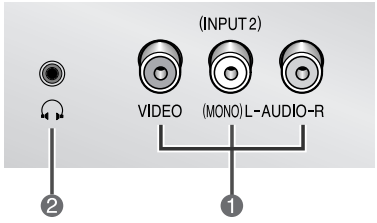
ENG

➢ The actual configuration on your TV may be different, depending on your model.

Side of the TV



Front of the TV



❶ AUDIO/VIDEO INPUT
❷ HEADPHONE CONNECTOR

❶ *Connecting External A/V Devices (INPUT)*

The RCA (VIDEO + AUDIO-L and R) connectors are used for equipment such as camcorders, video disc players and some video game devices.

➢
- When both the side (or front) and rear connectors are connected to external equipment, the side (or front) AV has the priority.
- When using the mono equipment such as camcorders, video disc players and some video game devices, connect to the “AUDIO-L” input connector.

❷ *Connecting Headphones*

– You can connect a set of headphones to your television if you wish to watch a television programme without disturbing the other people in the room.
– Prolonged use of headphones at a high volume may damage your hearing.

☛ Whenever you connect an audio or video system to your television, ensure that all elements are switched off.

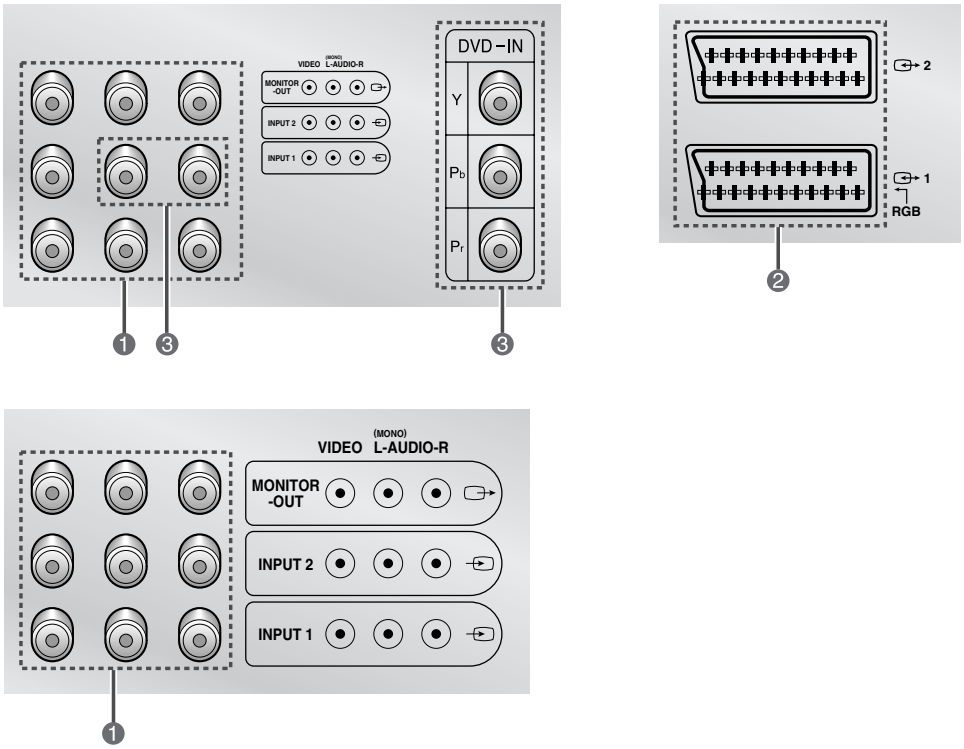
Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connection Panels (continued)

ENG

➢ The actual configuration on your TV may be different, depending on your model.

Rear of the TV



❶❷ *Connecting External A/V Devices (INPUT/OUTPUT)*

The connectors (RCA or SCART) are used for equipment such as video disc players, video game devices, camcorder and VCR.

❸ *Connecting DVD*

The RCA (Y + Pb + Pr + AUDIO-L and R) connectors are used for a DVD.

➢ When using the mono equipment such as camcorders, video disc players and some video game devices, connect to the “AUDIO-L” input connector.

Viewing Pictures From External Sources

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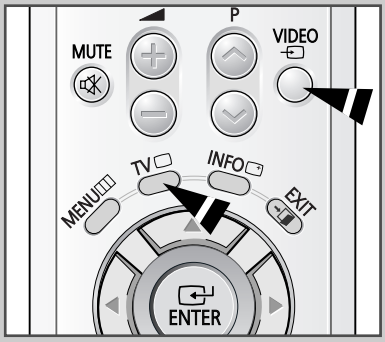
Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.



1 Check that all the necessary connections have been made.

2 Switch the television on and if necessary, press the **VIDEO** (⇆) button one or more times until the required input is displayed.

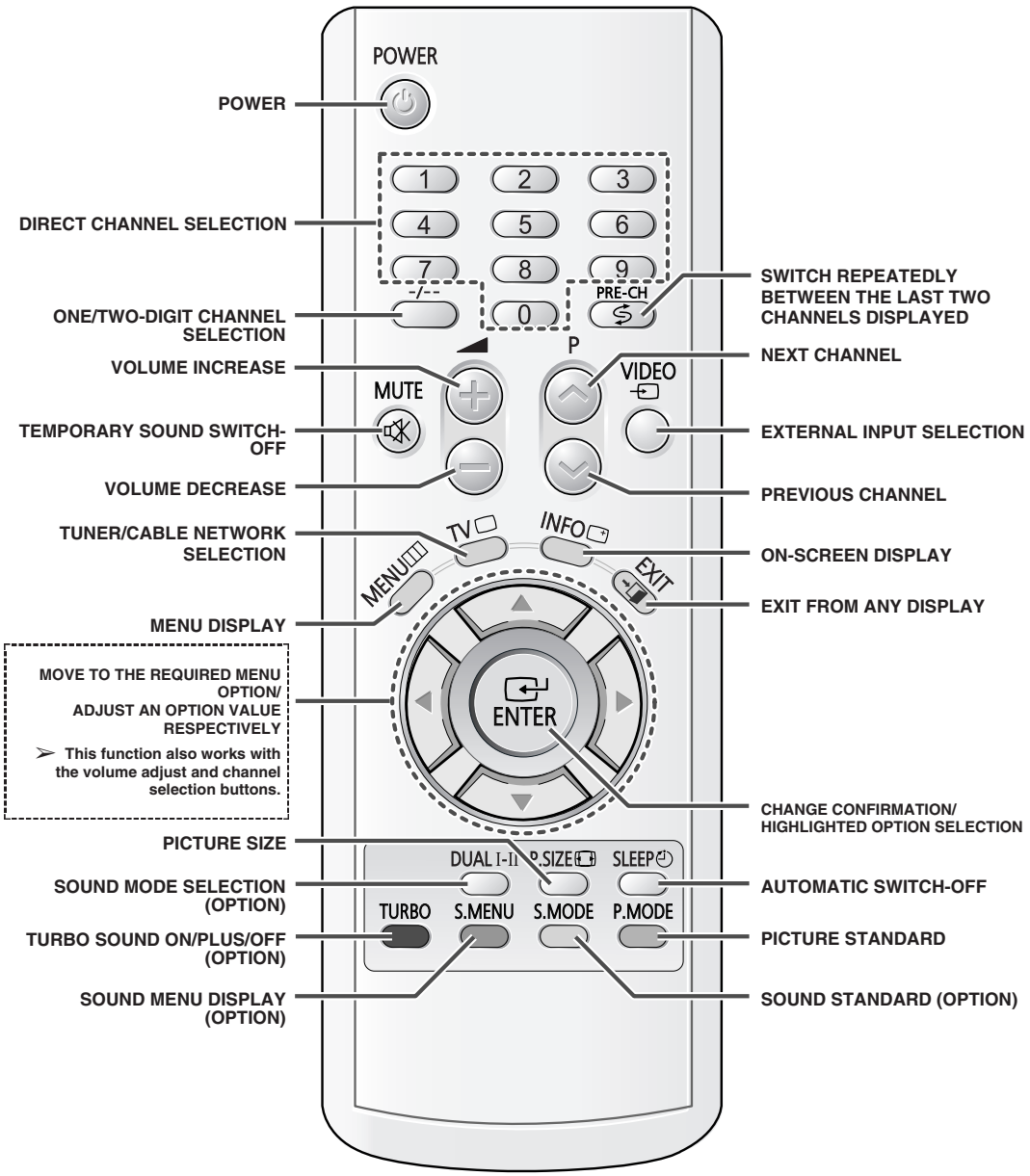
➢ Depending on the source selected, the pictures may appear automatically.

➢ To watch television programmes again, press the **TV** (▭) button and select the number of the channel required.

ENG

Infrared Remote Control (All Functions Except Teletext)

➢ Buttons and markings are subject to change.

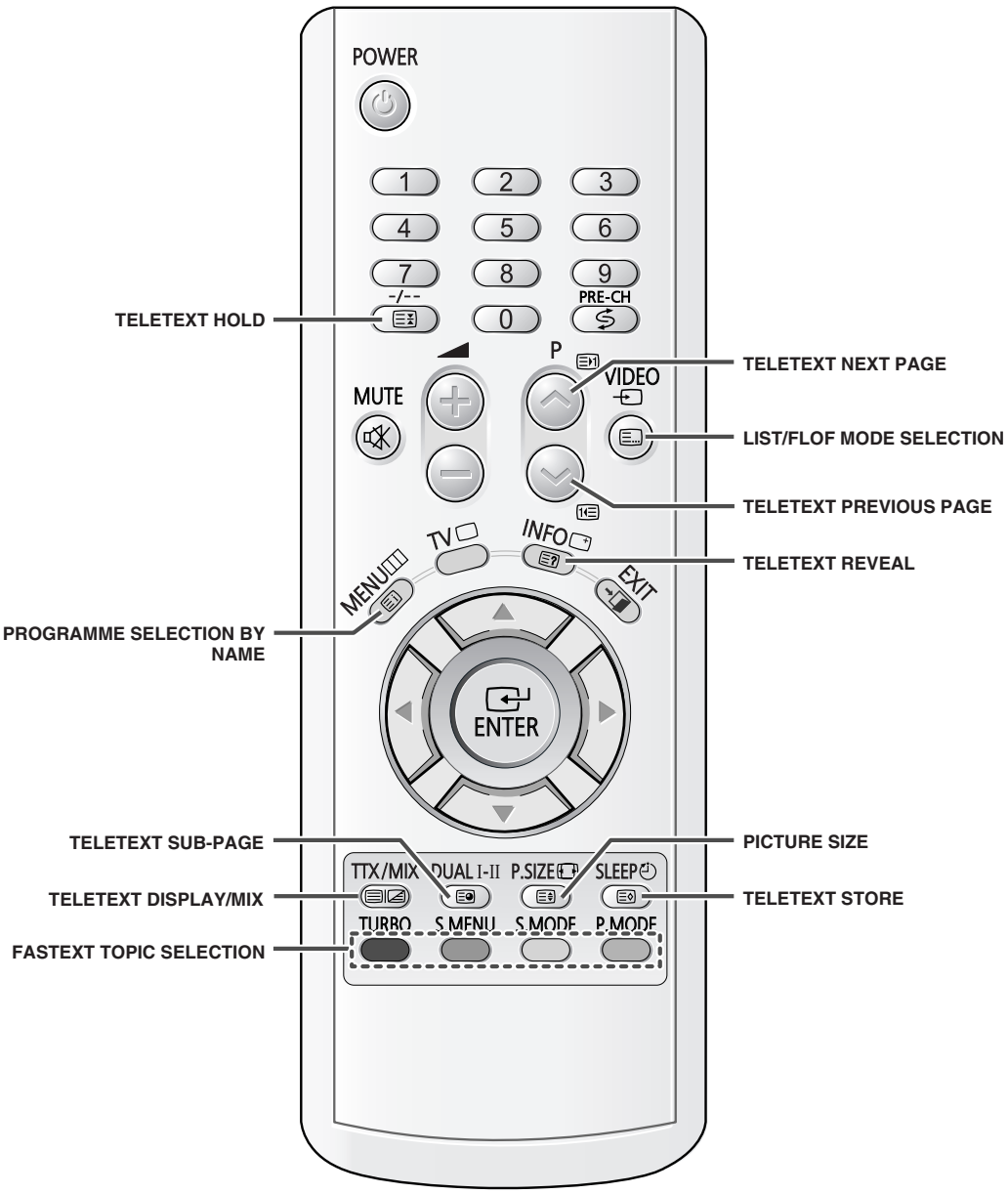


➢ Operation of remote control may be affected by bright artificial light near to the TV set.

Infrared Remote Control (Teletext Functions)

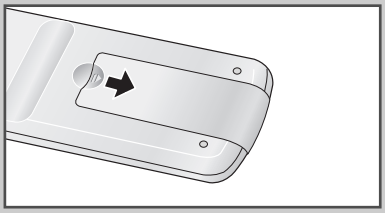
➢ Buttons and markings are subject to change.

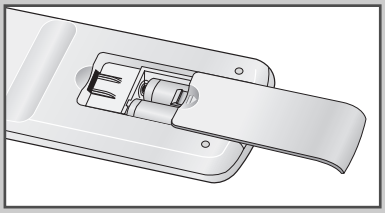
ENG

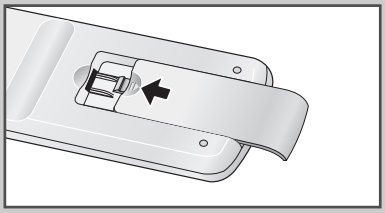


ENG

Inserting the Batteries in the Remote Control





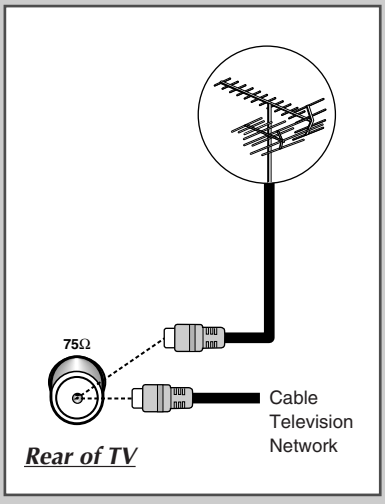


You must insert or replace the batteries in the remote control when you :

- ***Purchase the television.***
- ***Find that the remote control is no longer operating correctly.***

1	Remove the cover of the remote control by pressing the symbol (▼) and pulling the cover in the direction of the arrow.
2	Insert batteries, taking care to respect the polarities: ◆ **+** on the battery with **+** on the remote control ◆ **–** on the battery with **–** on the remote control
3	Replace the cover by pushing it in the direction of the arrow.

Connecting the Aerial (or Cable Television Network)



To view television channels correctly, a signal must be received by the set from one of the following sources:

- ***An outdoor aerial***
- ***A cable television network***

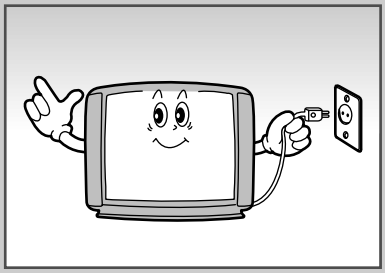
Plug the aerial or cable network input cable to the 75Ω coaxial socket on the rear of the television.

ENG

Switching Your Television On and Off

The mains lead is attached to the rear of the television.

☛ If you have purchased this television in the United Kingdom, refer to page 38 for further instructions on plug wiring.



1 Plug the mains lead into an appropriate socket.

➢ The main voltage is indicated on the rear of the TV set and the frequency is 50 or 60Hz.

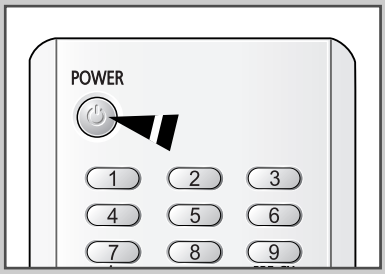
2 Press the "ⓘ" (ON/OFF) button on the front of the television.

Result: The Standby indicator lights up on the front panel.

3 Press the **POWER** (⏻) button on the remote control to switch the television on.

Result: The programme that you were watching last is re-selected automatically.

4 To switch your television off, press the "ⓘ" (ON/OFF) button again on the front of the television.



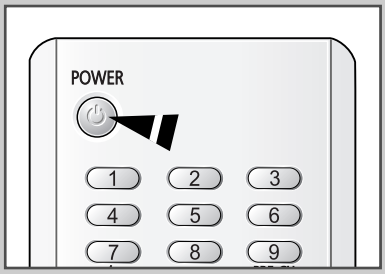
Placing Your Television in Standby mode

Your television can be placed in Standby mode, in order to reduce:

- ***Power consumption***
- ***Wear of the cathode ray tube***

The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

The television is placed automatically in Standby mode when you turn it on.



1 Press the **POWER** (⏻) button on the remote control.

Result: The screen is turned off and the Standby indicator on the front of the television lights up.

2 To switch the screen back on, simply press the **POWER** (⏻) button again on the remote control.

➢ Do not leave your television in standby mode for long periods of time (when you are away on holiday, for example). In this case, you should switch it off completely.

Plug & Play Feature (depending on the model)

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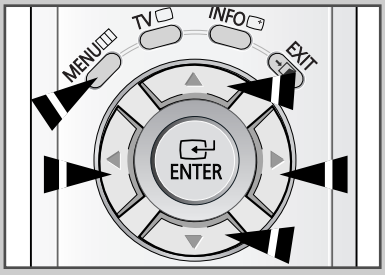
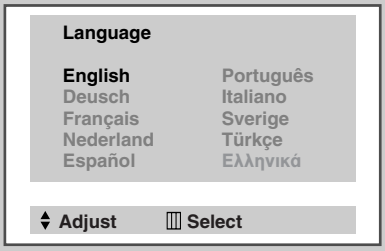
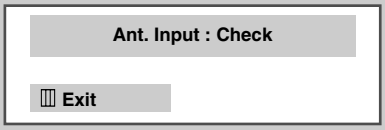
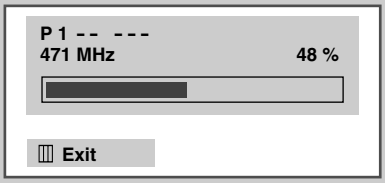
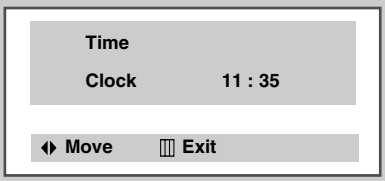
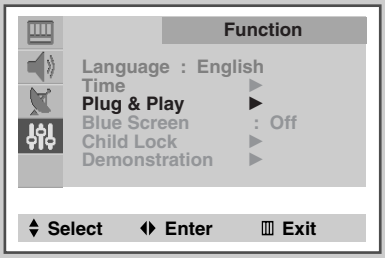












When the television is initially powered ON, three basic customer settings proceed automatically and subsequently: setting the language, channel and clock.

1 If the television is in Standby mode, press the **POWER** (⏻) button on the remote control.

Result: The message `Plug & Play` is displayed. It flickers for a little while and then the “Language” menu is automatically displayed.

2 Press the ▲ or ▼ button to select required language. Press the **MENU** (☰) button to enter the language, and then the message `Ant. Input : Check` is displayed.

➢ If any language is not selected on the `Language` menu, the “Language” menu will be displayed about 30 seconds later.

3 Make sure that the antenna is connected to the TV. And then press the ◄ or ► button to store the channels (refer to “Storing the Channels Automatically” on page 14).

Result: The horizontal bar is displayed, and then channels are stored in an order which reflects their positions in the frequency range.

4 When searching and storing is complete, the `Time` menu is displayed.

5 Press the ◄ or ► button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button (refer to “Setting and Displaying the Current Time” on page 31).

6 When you have finished, press the **MENU** (☰) button.

Result: The message `ENJOY YOUR WATCHING` is displayed, and then the channel which has been stored will be activated.

7 **If you want to reset this feature...**

1 Press the **MENU** (☰) button.

2 Press the ▲ or ▼ button to select the `Function`, and then press the ◄ or ► button.

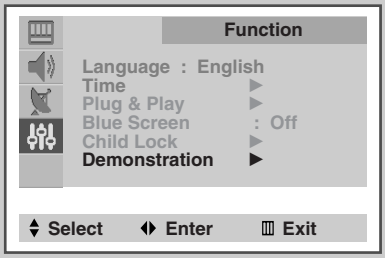
3 Select the `Plug & Play` by pressing the ▲ or ▼ button, and then press the ◄ or ► button.

Result: The message `Plug & Play` is displayed.

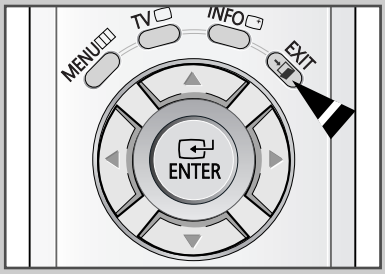
ENG

Viewing the Demonstration

To become familiar with the various menus provided by your television, you can view the inbuilt demonstration.

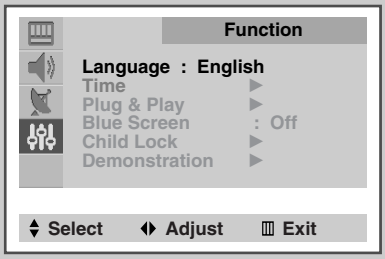


1	Press the **MENU** (▥) button.
2	Press the ▲ or ▼ button to select the `Function` and press the ◄ or ► button.
3	Press the ▲ or ▼ button to select the `Demonstration` and press the ◄ or ► button. Result: Each of the menu options is displayed in turn.
4	When you wish to exit from the demonstration, press the **EXIT** (→▯) button.



Choosing Your Language

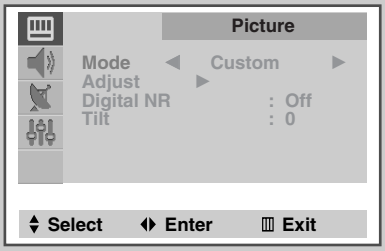
When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

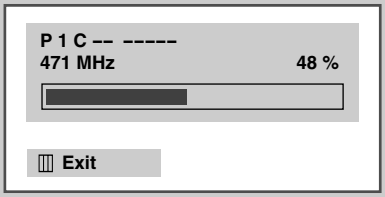


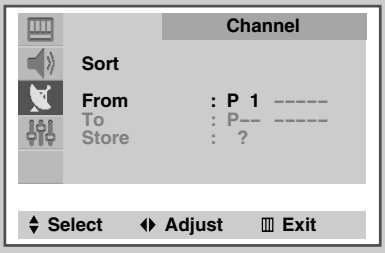
1	Press the **MENU** (▥) button.
2	Press the ▲ or ▼ button to select the `Function`.
3	Press the ◄ or ► button to select the `Language`.
4	Select a particular language by pressing the ◄ or ► button repeatedly.
5	When you have finished, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.

Storing the Channels Automatically (depending on the model)

ENG







You can scan the frequency ranges available on your television and in your country and store all the channels found automatically.

The channels are stored in the order in which they appear in the frequency bands. It is possible that the automatically allocated numbers may not correspond to those by which you wish to identify the channels. If this is the case, refer to "Sorting the Stored Channels" on page 20.

1 Press the **MENU** (▥) button.

2 Press the ▲ or ▼ button to select the `Channel`.

3 Press the ◀ or ▶ button to select the `Auto Store`.

4 Press the ◀ or ▶ button again.

Result: The `Auto Store` menu is displayed with the `Country` selected.

5 Select your country by pressing the ◀ or ▶ button. The following countries are available: `Others` - `Belgie` - `Deutschland` - `España` - `France` - `Italia` - `Nederland` - `Sverige` - `Schweiz` - `UK`.

6 Press the ▲ or ▼ button to select the `Search` and press the ◀ or ▶ button.

Result: The horizontal bar is displayed, and then channels are stored in an order which reflects their positions in the frequency range. Finally, the search will end automatically.

7 When searching and storing is complete, the `Sort` menu is displayed.

To...	Then...
Sort the stored channels into the desired numerical order	Go to Step **4** of the "Sorting the Stored Channels" procedure on page 20.
Exit the channel store function sorting the channels	Press the **MENU** (▥) button without repeatedly until the menus disappear.

➢ If sound does not work regularly after storing channels, select the sound system which best corresponds in **`Manual Store`** menu (refer to the opposite page).

Storing the Channels Manually (depending on the model)

ENG

When storing channels manually, you can choose:

- ***Whether or not to store each of the channels found.***
- ***The number by which you wish to identify each stored channel.***

1 Press the **MENU** (▥) button.

2 Press the ▲ or ▼ button to select the `Channel` and press the ◄ or ► button.

3 Press the ▲ or ▼ button to select the `Manual Store` and press the ◄ or ► button.

Result: The `Manual Store` menu is displayed with the `Color System` selected.

4 Press the ◄ or ► button repeatedly until the color is of the best quality.

Result: The `Color System` is changed (depending on the model).

AUTO – PAL – SECAM – NTSC4.43 – NTSC3.58 (option)

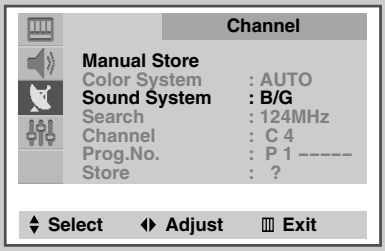
➢ NTSC4.43 is a "trick" playback mode used by special VCR's to play PAL-recorded videos in NTSC mode.

5 Press the ▲ or ▼ button to select the `Sound System` and press the ◄ or ► button repeatedly until the sound is of the best quality.

Result: The `Sound System` is changed (depending on the model).

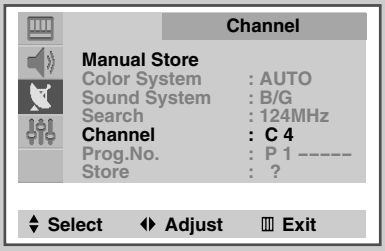
- **B/G – I – D/K – L/L'** (option)
- **D/K – M** (option) **– B/G – I**

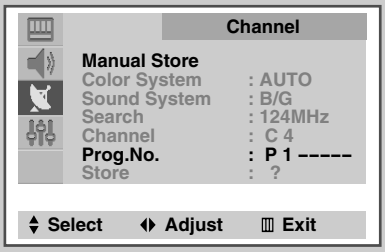
➢ If sound does not work regularly after storing channels, select the sound system which best corresponds.

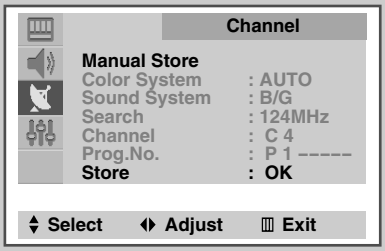


Storing the Channels Manually (depending on the model) (cont.)

ENG







6 **If you know the number of the channel to be stored, press the...**

1. ▲ or ▼ button to select the `Channel`.
2. ▶ button.
3. ▲ or ▼ button to select the `C` (Air channel) or `S` (Cable channel).
4. ▶ button.
5. ▲ or ▼ button to select the channel.

➢ **If no sound or abnormal sound...**

1. Press the ▶ button.
2. Press the ▲ or ▼ button to select the `Sound system`.
3. Select the required system by pressing the ◀ or ▶ button.

If you do not know the channel numbers, press the...

1. ▲ or ▼ button to select the `Search`.
2. ◀ or ▶ button to start the search.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

7 To assign a programme number to the channel, select the `Prog.No.`. Press the ◀ or ▶ button until you find the correct number.

8 To store the channel and associated programme number, select the `Store` and press the ◀ or ▶ button.

Result: `OK` is displayed.

9 Repeat Steps **6** to **8** for each channel to be stored.

10 When you have finished manual storage, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing

Giving Channels Names (depending on the model)

ENG

If channel name information is broadcast when you store the channels either manually or automatically, the names are assigned to the channels directly. You can however change these names or assign new names as required.

1 Press the **MENU** (▥) button.

2 Press the ▲ or ▼ button to select the `Channel` and press the ◄ or ► button.

3 Press the ▲ or ▼ button to select the `Name` and press the ◄ or ► button.

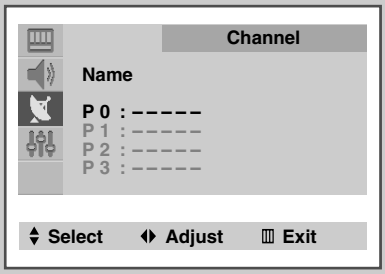
4

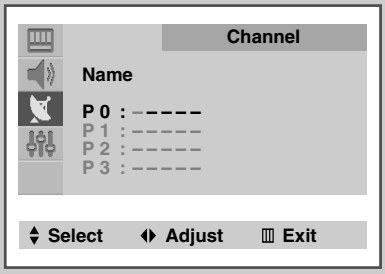
To...	Press the...
Select a letter or number	▼ or ▲ button.
Move on the next letter	► button.
Move back the previous letter	◄ button.

➢ The characters available are:
- Letters of the alphabet (A...Z)
- Numbers (0...9)
- Special characters (space, –)

5 You can have each channel newlynamed.

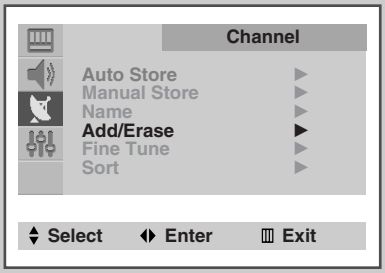
6 When you have finished entering the name, press the **EXIT** (↦▯) button, or press the **MENU** (▥) button repeatedly to return to normal viewing.

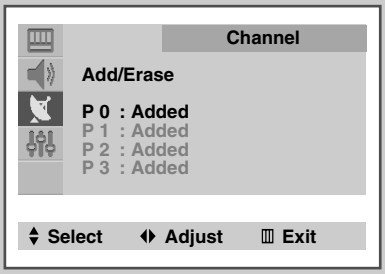


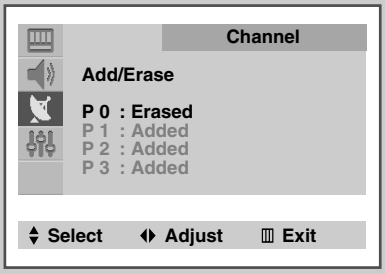


Skipping Unwanted Channels

ENG







You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those you have chosen to skip are not displayed.

All channels that you do not specifically choose to skip are displayed during scanning.

1	Press the **MENU** (▥) button.
2	Press the ▲ or ▼ button to select the `Channel` and press the ◄ or ► button.
3	Press the ▲ or ▼ button to select the `Add/Erase` and press the ◄ or ► button. Result: The `Add/Erase` menu is displayed.
4	Press the ▲ or ▼ button to select the required channel.
5	To add or erase the desired channel by pressing the ◄ or ► button.
6	When you have finished adding and erasing channels, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing

Fine tuning Channel Reception

ENG

If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during the search and store operation. If however the signal is weak or distorted, you may have to fine-tune the channel manually.

1 Press the **MENU** (▥) button.

2 Press the ▲ or ▼ button to select the `Channel` and press the ◄ or ► button.

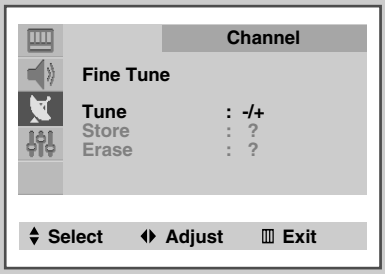
3 Press the ▲ or ▼ button to select the `Fine Tune` and press the ◄ or ► button.

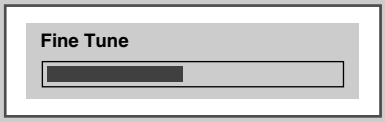
Result: The `Fine Tune` menu is displayed with the `Tune` selected.

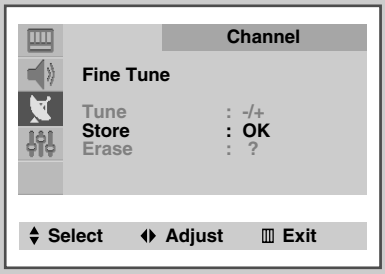
4

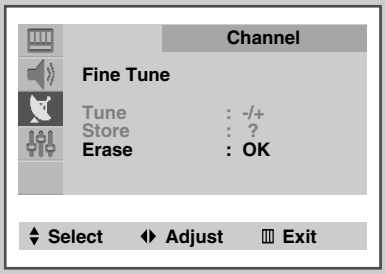
To...	Press the...
obtain a sharp and clear picture and good sound quality	◆ ◄ or ► button. Result: The horizontal bar's cursor moves to the left or right.
memorise adjusted picture or sound	◆ ▲ or ▼ button to select the `Store`. ◆ ◄ or ► button. Result: `OK` is displayed.
erase adjusted picture or sound	◆ ▲ or ▼ button to select the `Erase`. ◆ ◄ or ► button. Result: `OK` is displayed.

5 When you have finished, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.



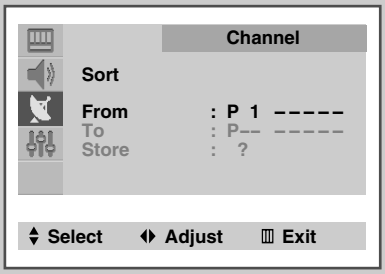


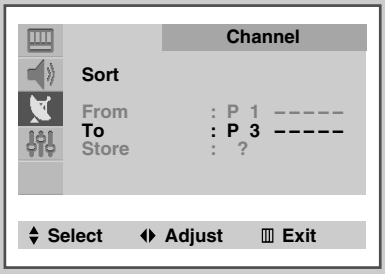


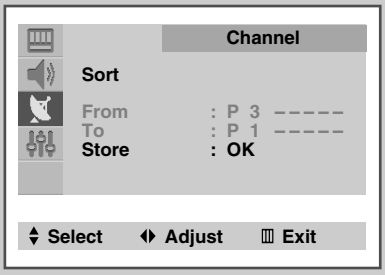


Sorting the Stored Channels

ENG







You can exchange the numbers of two channels, in order to:

- ***Modify the numeric order in which the channels have been automatically stored.***
- ***Give easily remembered numbers to the channels that you watch most often.***

1 Press the **MENU** (▥) button.

2 Press the ▲ or ▼ button to select the `Channel` and press the ◄ or ► button.

3 Press the ▲ or ▼ button to select the `Sort` and press the ◄ or ► button.

Result: The `Sort` menu is displayed with the `From` selected.

4 Press the ◄ or ► button until the channel number that you wish to change is displayed.

Result: The selected channel's picture is displayed.

5 Press the ▲ or ▼ button to select the `To`.

6 Press the ◄ or ► button until the new number by which you wish to identify the channel is displayed.

Result: The selected channel is exchanged with the one previously stored to the chosen number.

Example: If you select `P 1` for the `From` and `P 3` for the `To`:
- Channel 1 becomes channel 3.
- Channel 3 becomes channel 1.

7

To...	Press the...
Confirm the exchange of channel numbers	◆ ▲ or ▼ button to select the `Store`. ◆ ◄ or ► button. Result: `OK` is displayed. ➢ You can exchange other channel numbers by selecting `From` and returning to step **4**.

8 When you have finished sorting channels, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing

ENG

Selecting a Channel Numbered Ten or Over

When using the numeric buttons to select a channel stored at programme position ten or higher, follow the instructions below.

1 Press the **-/--** button.

Result: The "**--**" symbol is displayed.

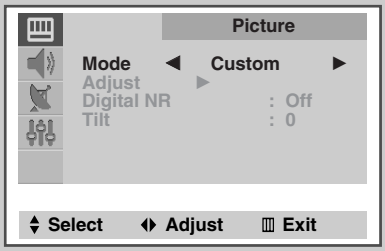
2 Enter the two-digit channel number.

Example: To select channel 42, press 4, followed by 2.

Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements. The following picture effects are available in the order given:

- ***Custom, Standard, Sports, Natural, Mild.***



1 Press the **MENU** (▥) button.

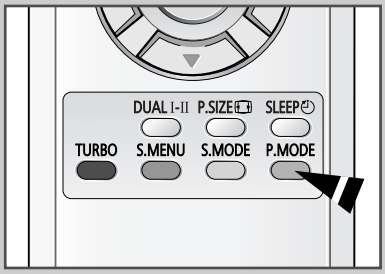
Result: The `Picture` menu is displayed.

2 Press the ◀ or ▶ button.

Result: The `Mode` menu is selected.

3 Select to satisfy your preference by pressing the ◀ or ▶ button.

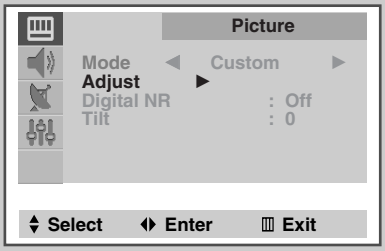
4 When you have been finished, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.

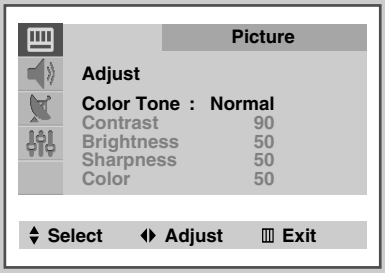


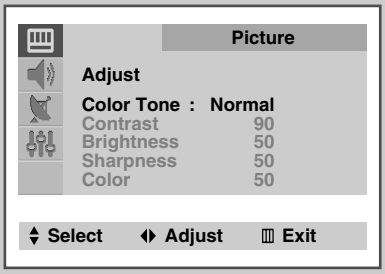
➢ ***You can select the required picture effect by simply pressing the "P.MODE" (Picture Mode) button on the remote control.***

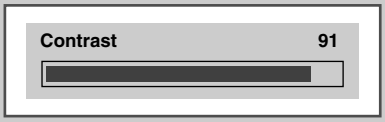
Adjusting the Picture Settings

ENG









Your television has several settings which allow you to control picture quality:

- ***Color Tone, Contrast, Brightness, Sharpness, Color, Tint (NTSC only)***

1 Press the **MENU** (▥) button.

Result: The `Picture` menu is displayed.

2 Press the ◀ or ▶ button.

3 Press the ▲ or ▼ button to select the `Adjust`, and then press the ◀ or ▶ button.

Result: When select the `Mode` to `Custom`, the `Adjust` menu is displayed.

4

To adjust the...	Press the...
◆ Color Tone	◆ ◀ or ▶ button. Result: You select the required option (`Normal`, `Warm1/2`, `Cool1/2`).
◆ Contrast ◆ Brightness ◆ Sharpness ◆ Color ◆ Tint (NTSC only)	◆ ◀ or ▶ button. Result: The horizontal bar is displayed.

➢ The `Sharpness` and `Tint` are not available in DVD mode.

5 When you are satisfied with the settings, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.

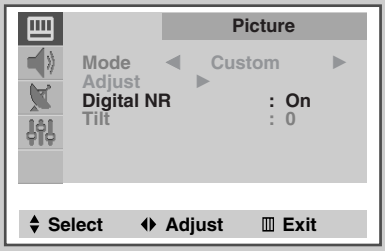
➢ The television has an "automatic degaussing" system that is activated if magnetic interference is present. To degauss the television screen, switch power off by pressing the "⏻" (ON/OFF) button on the front panel (refer to "Automatic Degaussing to Remove Color Patches" on page 37).

➢ If you make any changes to the **`Adjust`** settings, the picture standard is automatically switched to **`Custom`**.

ENG

Setting the Digital Noise Reduction

If the signal received by your television is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

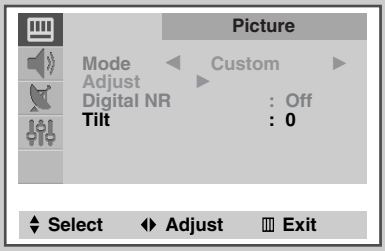


1. Press the **MENU** (▥) button.
   Result: The `Picture` menu is displayed.
2. Press the ◀ or ▶ button.
3. Press the ▲ or ▼ button to select the `Digital NR`.
4. Select the required option (`On/Off`) by pressing the ◀ or ▶ button.

➢ Not available in DVD mode.

Using the Tilt Control Feature (depending on the model)

If you find that the picture received is slightly tilted to one side, you can adjust the tilt setting.



1. Press the **MENU** (▥) button.
   Result: The `Picture` menu is displayed.
2. Press the ◀ or ▶ button.
3. Press the ▲ or ▼ button to select the `Tilt`.
4. To adjust the `Tilt` (`±7`) by pressing the ◀ or ▶ button.
5. When you are satisfied with the settings, press the **EXIT** (→▯) button, or press the **MENU** (▥) button repeatedly to return to normal viewing.

ENG

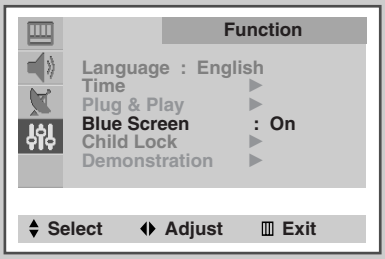
Selecting the Picture Format (depending on the model)

You can select the picture format which best corresponds to your viewing requirements by simply pressing the "P.SIZE ( )" (Picture size) button on the remote control.

Depending on the model, the following picture formats are available in the order given:

- ***Normal***
- ***Zoom*** *(expansion of a 16:9 picture to full screen format)*
- ***16:9***

Setting the Blue Screen Mode



If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the `Blue Screen` mode to `Off`.

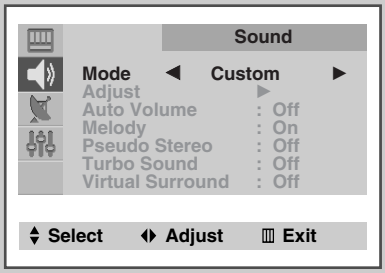
1	Press the **MENU** ( ) button.
2	Press the ▲ or ▼ button to select the `Function` and press the ◄ or ► button.
3	Press the ▲ or ▼ button to select the `Blue Screen`.
4	Press the ◄ or ► button to select the required option (`On/Off`).
5	When you are satisfied with the settings, press the **EXIT** ( ) button or, press the **MENU** ( ) button repeatedly to return to normal viewing.

Changing the Sound Standard

ENG

You can select the type of special sound effect to be used when watching a given broadcast. The following sound effects are available in the order given:

- *Custom, Standard, Music, Movie, Speech.*

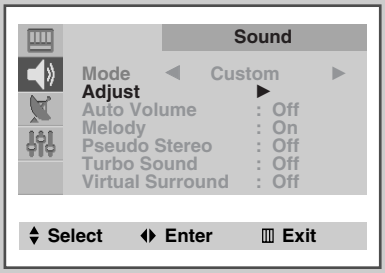


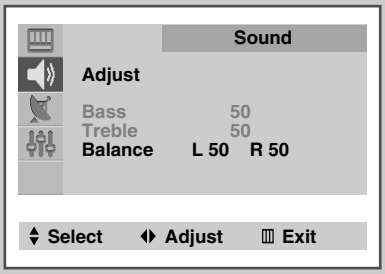
1	Press the **MENU** (▥) button.
2	Press the ▲ or ▼ button to select the `Sound` and press the ◄ or ► button. Result: The `Mode` menu is selected.
3	Select to satisfy your preference by pressing the ◄ or ► button.
4	When you have been finished, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.

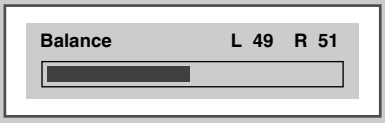
➢ ***You can select the required sound effect by simply pressing the "S.MODE" (Sound Mode) button on the remote control.***

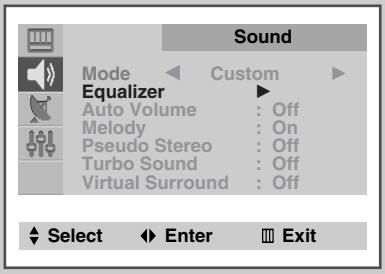
Adjusting the Sound Settings (depending on the model)

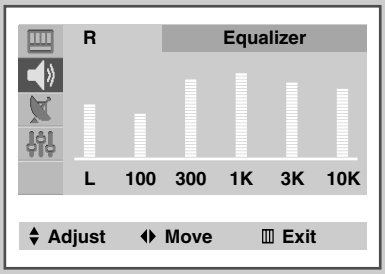
ENG

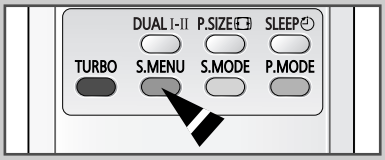












The sound settings can be adjusted to suit your personal preferences.

1. Press the **MENU** (▥) button.
2. Press the ▲ or ▼ button to select the `Sound` and press the ◄ or ► button.
3. Press the ▲ or ▼ button to select the `Adjust` (or `Equalizer`) and press the ◄ or ► button.

   Result: When select the `Mode` to `Custom`, the `Adjust` (or `Equalizer`) menu is displayed.
4. Select the required option by pressing the ▲ or ▼ button and adjust to satisfy your preference by pressing the ◄ or ► button.
5. Press the ◄ or ► button.

   Result: The horizontal bar is displayed.
6. When you are satisfied with the settings, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.

➢ ***You can display the sound adjust menu directly by pressing the "S.MENU" (Sound menu) button on the remote control.***

Extra Sound Settings (depending on the model)

ENG

The following sound settings can be adjusted to suit your personal preferences.

- ***Auto Volume***

  Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. **Auto Volume** lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

- ***Melody***

  You can hear clear melody sound when the TV is powered ON or OFF.

- ***Pseudo Stereo / Virtual Surround***

  Pseudo Stereo converts a monaural sound signal into two identical left and right channels.
  Once the **Pseudo Stereo** or **Virtual Surround** is set to **On** or **Off**, the setting applies to the sound effects such as Standard, Music, Movie and Speech.

- ***Turbo Sound***

  On - **Plus** - **Off**

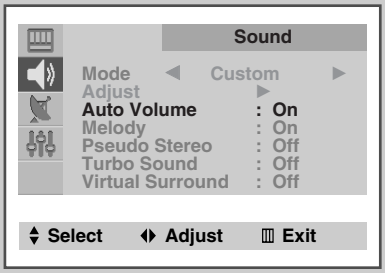
  You can enjoy more magnificent and dynamic sound when watching music, movie or other channel. **Turbo Sound** suitably emphasizes both higher and lower bands of sound (and includes other effects).

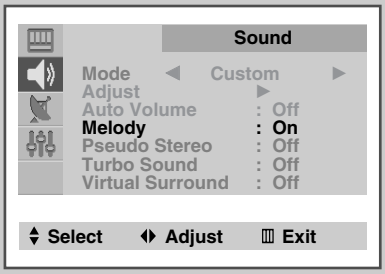
1	Press the **MENU** (▥) button.	
2	Press the ▲ or ▼ button to select the **Sound** and press the ◄ or ► button.	
3	**To...**	**Press the...**
	Change an option	▲ or ▼ button.
	Select the required option (**On/Off**)	◄ or ► button.
4	When you are satisfied with the settings, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.	

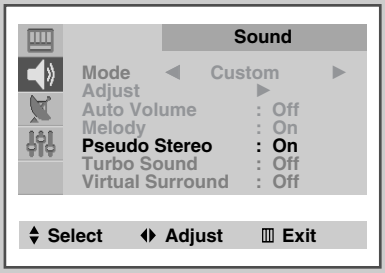
➢ ***You can select the turbo sound by simply pressing the "TURBO" button on the remote control.***

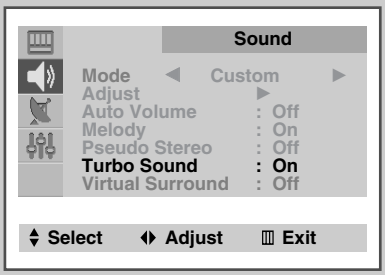
➢ Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol (▯▯) are trademarks of Dolby Laboratories.

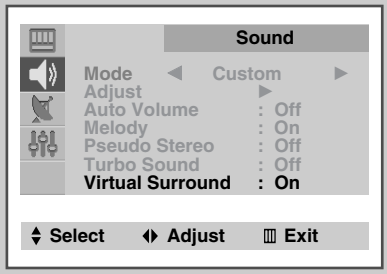
VIRTUAL DOLBY SURROUND

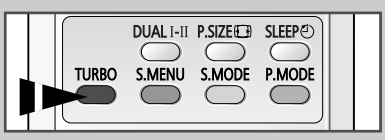












Selecting the Sound Mode (depending on the model)

ENG

The "DUAL I-II" button displays/controls the processing and output of the audio signal. When power is switched ON, the mode is automatically preset to either "Dual-I" or "Stereo", depending on the current transmission.

	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Regular + NICAM Mono	**Mono** ↔ **Mono** **Nicam** (Normal)
	NICAM Stereo	**Stereo** ↔ **Mono** **Nicam** (Normal)
	NICAM Dual-I/II	**Dual-I** → **Dual-II** → **Mono** **Nicam** **Nicam** (Normal)
A2 Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Bilingual or Dual-I/II	**Dual-I** ↔ **Dual-II**
	Stereo	**Stereo** ↔ **Mono** (Forced Mono)

- If the receiving conditions deteriorate, listening will be easier if the mode is set to the **Mono** position using the **DUAL I-II** button.
- If the stereo signal is weak (or if intermittent Stereo-Mono) and automatic switching occurs, then switch to the **Mono** mode.
- When receiving mono sound in the AV mode, connect to the "L" input jack on the panels. If the mono sound comes out only from the left speaker, then press the **DUAL I-II** button.

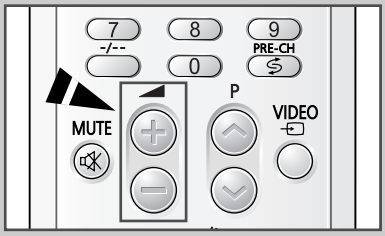
ENG

Adjusting the Volume

- Press the + button to increase the volume (cursor moves to the right)
- Press the − button to decrease the volume (cursor moves to the left)

➢ The volume setting is retained:

- When you switch the television to standby mode
- When you switch the television off using the "⏻" (ON/OFF) button on the front panel
- If there is a power failure.

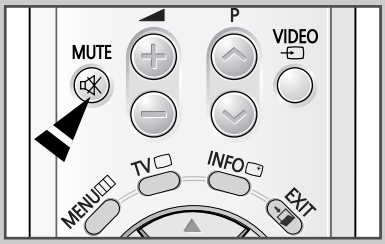


Switching the Sound Off Temporarily

You can switch the sound off temporarily, for example you may wish to answer the telephone.

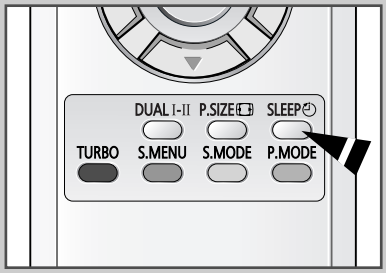
1 Press the **MUTE** (🔇) button.
Result: The sound is switched off and "🔇" is displayed.

2 When you wish to turn the sound back on at the same volume as before, press the **MUTE** (🔇) button again (or either of the volume buttons).



Setting the Sleep Timer (depending on the model)

ENG



You can select a time period of between 30 and 180 minutes after which the television automatically switches to Standby mode by pressing the "SLEEP (⏲)" button.

1 Press the **SLEEP** (⏲) button on the remote control.

Result:

If the sleep timer is...	The screen displays...
Already set	Time remaining before the television will be placed in standby mode.
Not yet set	Word `Off`.

2 Press the **SLEEP** (⏲) button repeatedly and cycle through the preset time intervals (30, 60, 90, 120, 150, 180).

Result: The television automatically switches to standby mode when the timer reaches 0.

3 To cancel the sleep timer function, press the **SLEEP** (⏲) button repeatedly and select `Off`.

Setting and Displaying the Current Time (depending on the model)

ENG

You can set the television's clock so that the current time is displayed when you press the "INFO (⊡)" button.

You must also set the time if you wish to use the automatic On/Off timers.

➢ The clock setting will be re-activated when pressing the "ⓘ" (ON/OFF) button on the front panel.

1 Press the **MENU** (▥) button.

2 Press the ▲ or ▼ button to select the `Function` and press the ◄ or ► button.

3 Press the ▲ or ▼ button to select the `Time`, and press the ◄ or ► button.

Result: The `Time` menu is displayed with the `Clock` selected.

4

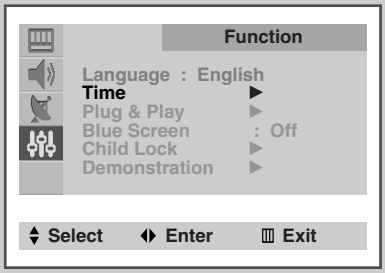
To...	Press the...
Move to the hour or minute	◄ or ► button.
Set the hour or minute	▲ or ▼ button.

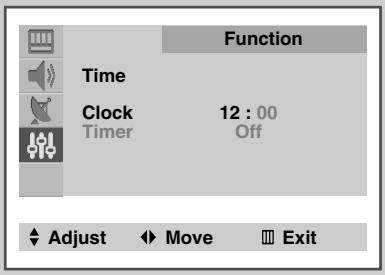
5 When you have finished, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.

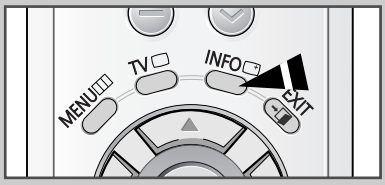
6

To display the...	Press the "INFO (⊡)" button...
Channel information	Once.
Current time	Twice.

7 To remove the display, press the **INFO** (⊡) button again.

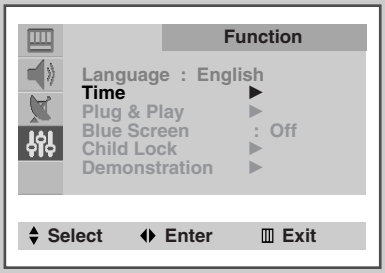


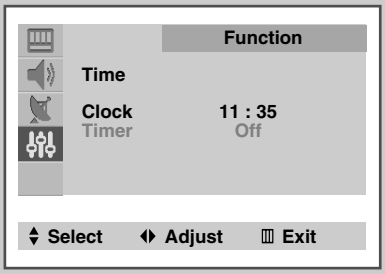


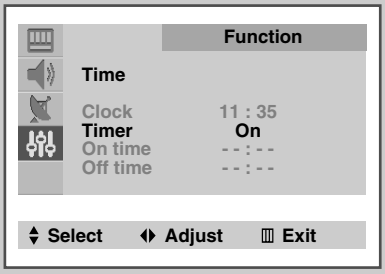


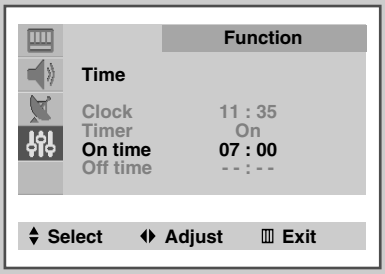
Switching the Television On and Off Automatically (depending on the model)

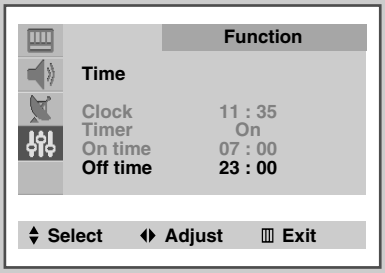
ENG











You can set the On/Off timers so that the television will:

- ***Switch on automatically and tune to the channel of your choice at the time you select***
- ***Switch off automatically at the time you select***

➢ ***The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the previous page). If you have not yet set the clock, the message "Set the clock first" is displayed.***

1 Press the **MENU** (▥) button.

2 Press the ▲ or ▼ button to select the `Function` and press the ◄ or ► button.

3 Press the ▲ or ▼ button to select the `Time`, and press the ◄ or ► button.

Result: The `Time` menu is displayed.

4 Press the ▲ or ▼ button to select the `Timer`.

5 Press the ◄ or ► button to set the mode to `On`.

Result: The `On time` and `Off time` options are displayed.

6 Press the ▲ or ▼ button to select the `On time`.

7 Set the time at which you wish the television to be switched On.

To...	Press the...
Move to the hour or minute	◄ or ► button.
Adjust the hour or minute	▲ or ▼ button.

8 In the same way, set the time at which you wish the television to be switched Off.

9 When you have finished setting the On/Off time, press the **EXIT** (→▯) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.

➢ **Absent Power Off**

When you set the timer "On", your television will eventually be turned off, if you do not operate any controls during the 3 hours after the TV is turned on by timer. This function is available in only the timer "On" mode and will prevent a leakage accident or overheating, caused by your TV left on for a long time due to the timer "On" (when you are away on holiday, for example).

Activating the Child Lock

ENG

You can restrict viewing by locking the channels of your choice.

Example: You can prevent your children from watching unsuitable programmes.

1 Press the **MENU** (▥) button.

2 Press the ▲ or ▼ button to select the `Function` and press the ◄ or ► button.

3 Press the ▲ or ▼ button to select the `Child Lock` and press the ◄ or ► button.

Result: The `Child Lock` menu is displayed.

4 Set to `On` by pressing the ◄ or ► button.

➢ If you want to unlock a channel, set to `Off`.

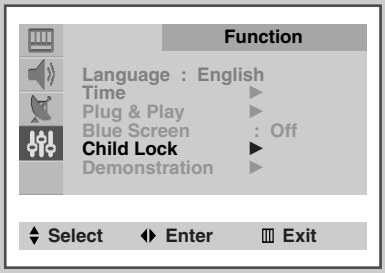
5 Press the ▲ or ▼ button to select the `Prog.No.`. Select the number of the channel to be locked by pressing the ◄ or ► button.

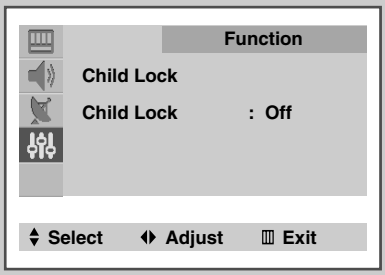
6 Press the ▲ or ▼ button to select the `Lock` and press the ◄ or ► button.

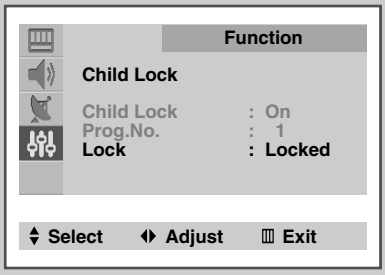
Result: `Locked` is displayed.

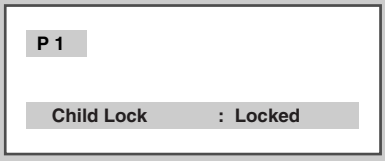
7 When you have finished, press the **EXIT** (↩) button or, press the **MENU** (▥) button repeatedly to return to normal viewing.

➢ If any channel is locked, you can not enter the **`Channel`** menu by using the control buttons on the television, and the message "Not available" is displayed. You can access by using the remote control only.



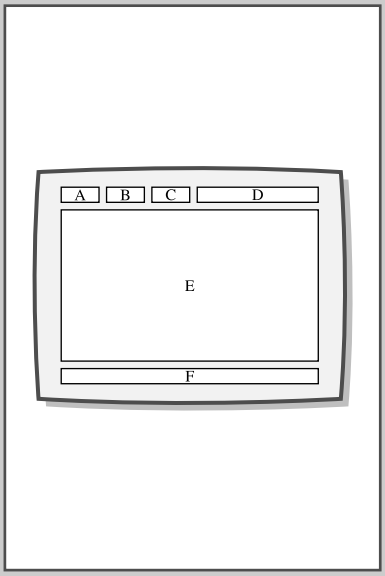






ENG

Teletext Decoder



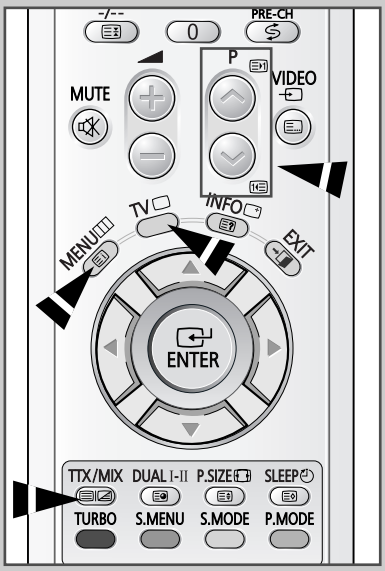
Most television channels carry "teletext," pages of written information that provide information such as:

- ***Television programme times***
- ***News bulletins***
- ***Weather forecasts***
- ***Sports results***
- ***Subtitles for the hard of hearing***

The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting station identity.
C	Current page number or search status
D	Date and time.
E	Text.
F	Status information.

Displaying Teletext Information



You can display teletext information at any time, but signal reception must be good. Otherwise:

- ***Information may be missing***
- ***Some pages may not be displayed***

To activate the teletext mode and display the contents page:

1 Using the ▲ or ▼ button, select the channel providing the teletext service.

2 Press the **TTX/MIX** (▤/◪) button to activate the teletext mode.

Result: The contents page (page 100) is displayed. It can be redisplayed at any time by pressing the ▤i (index) button.

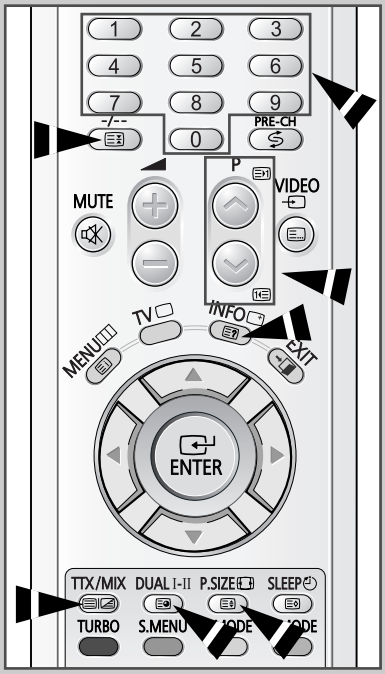
3 To display the actual broadcast simultaneously with the teletext page, press the **TTX/MIX** (▤/◪) button.

4 To return to normal viewing press the **TV** (▭) button.

Selecting a Specific Teletext Page

ENG

Press the number buttons on the remote control to enter the page number directly:



1 Enter the three-digit page number listed in the contents by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed.

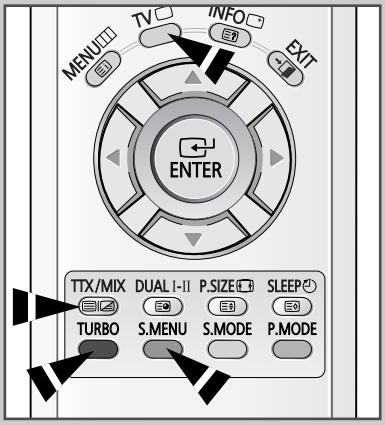
2 If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the (hold). Press the (hold) again to resume.

3 Using the various display options:

To display...	**Press the...**
◆ Both teletext information and the normal broadcast	**TTX/MIX** (▤◪)
◆ Hidden text (answers to quiz games, for example)	(reveal)
◆ The normal screen	(reveal) again
◆ A secondary page, by entering its 4-digit number	(sub-page)
◆ The next page	(page up)
◆ The previous page	(page down)
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	(size) ◆ Once ◆ Twice
◆ Normal screen	◆ Three times

ENG

Using FLOF to Select a Teletext Page



The various topics included in the teletext pages are color-coded, and can be selected by pressing the colored buttons on the remote control.

1 Display the teletext contents page by pressing the **TTX/MIX** (▤◪) button.

2 Press the colored button corresponding to the topic that you wish to select (The available topics are listed on the status information line).

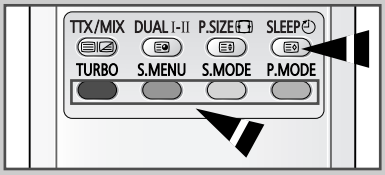
Result: The page is displayed with additional color-coded information that can be selected in the same way.

3

To display the:	Press the:
Previous page	Red button.
Next page	Green button.

4 When you have finished, press the **TV** (▭) button to return to the normal broadcast.

Storing Teletext Pages



Up to four teletext pages can be stored.

1 Select the LIST mode.

Result: Four 3-digit numbers are displayed in different colors at the bottom of the screen.

2 Press the colored button corresponding to the page that will be replaced.

3 Enter the new page number using the numeric buttons.

4 Repeat steps **2** and **3** for each page to be stored, using a different colored button each time.

5 Press the ▤◇ (store) button until the corresponding blocks are displayed in white.

➢ The ▤… button is used to switch between:

- LIST mode
- FLOF mode

ENG

Automatic Degaussing to Remove Color Patches

A degaussing coil is mounted around the picture tube, so you do not normally need to degauss the television manually.

If you move the television to a different position and color patches appear on the screen, you must:

- *Switch the television off by pressing the " ⏻ " (ON/OFF) button on the front panel*
- *Unplug the television from the wall socket*
- *Leave the television power-off (stand-by) for about 30 minutes so that the automatic degauss function can be activated, and then press the POWER (⏻) button on the remote control.*

☛ *If your television will be left unattended, press the " ⏻ " (ON/OFF) button to turn your television off.*

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the " ⏻ " (ON/OFF) button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	◆ Check the volume. ◆ Check whether the **MUTE** (🔇) button has been pressed on the remote control.
No picture or black and white picture	◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	◆ Try to identify the electrical appliance that is affecting the television and move it further away. ◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	◆ Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.

Wiring the Mains Power Supply Plug (UK Only)

ENG

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.
Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.
If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.
However, if there is no alternative to cut off the plug, remove the fuse and then safely dispose of the plug.
Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.
The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚ , OR COLOURED GREEN OR GREEN AND YELLOW.

☛ ***EUROPEAN NOTICE***

Products with the CE marking comply with the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- **EN55013:1990+A12:1994+A13:1996+A14:1999**
  Radio Frequency Interference
- **EN55020:1994+A11:1996+A12/A13/A14:1999**
  Electromagnetic Immunity
- **EN61000-3-2:1995+A1/A2:1998**
  Power Line Harmonics
- **EN61000-3-3:1995**
  Voltage Fluctuations
- **EN60065:1998**
  Product Safety

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Memo

– AFTER SALES SERVICE

– Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

SAMSUNG ELECTRONICS

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